

STORAGEDOCK

48 VOLT BATTERY RANGE

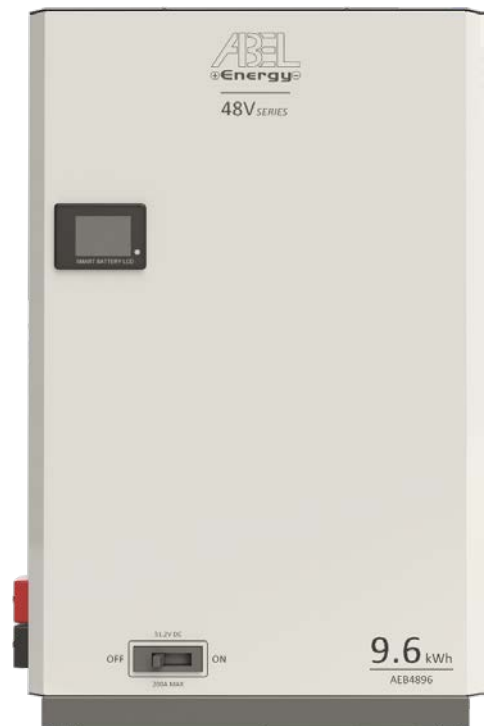
ABEL ENERGY BATTERY RANGE

AB9.6K/48V LiFePO₄ Battery TECHNICAL DATA SHEET

SHORT DESCRIPTION

Introducing the AB51.2V/9.6K-188Ah LiFePO₄ battery, an innovative energy storage solution proudly manufactured in South Africa. This compact battery has a 9.6 kWh capacity and a 188 Ah rating, making it ideal for various applications. The AB9.6K/48V features a contemporary metal enclosure and weighs 76.3kg.

At its core, prime-life lithium iron phosphate (LiFePO₄) battery cells power the AB9.6K/48V, known for exceptional performance and longevity. Ensuring at least 4000 cycles at 80% Depth of Discharge (DoD), it provides a reliable energy storage solution. The battery includes a proprietary intelligent BMS, actively monitoring and managing the battery's health to safeguard against overcharging and over-discharging.



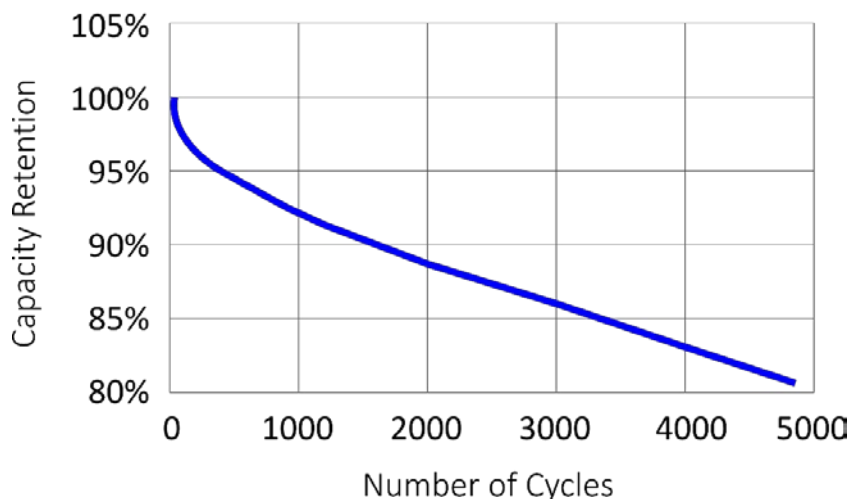
TECHNICAL SPECIFICATIONS AB9.6K/48V

Product code	AEB010-48V9.6
Battery type	Grade A LiFePO ₄ Prismatic Cells
Nominal voltage	51.2 VDC
Nominal capacity	188 Ah
Total energy capacity	9.60 kWh
Energy capacity at 80% DoD	7.68 kWh
Standard charge current	125 A
Maximum charge current	150 A
Charge voltage Bulk/Absorb	56.2 VDC



Float voltage	56.0 VDC
Recommended constant discharge	150 A
Max discharge current	180 A
Discharge cut-off voltage	48 V @ 0.005C
BMS	Charge: 200A / Discharge: 200A
Protection	200 A circuit breaker
Operating temperature – Charge/Discharge	0 to 45° C / 0 to 55° C
Maximum parallel batteries	4 – Master and slave
Inverter size per additional battery	10kVA / 15kVA / 20kVA / 25kVA
Maximum discharge per additional battery	200A / 350A / 400A / 500A
CAN-bus communication	Yes
Victron GX ready	Yes
Case enclosure	Floor/wall mountable metal enclosure, painted. Indoor/protected under-cover use.
Dimensions (length x width x depth)	790mm x 520mm x 170mm
Weight	76.3kg
Ventilation distance	150mm clear on all sides with no obstructions
Cycle life	4000 cycles @ 0.5C 80% DoD

BATTERY CYCLE LIFE AT 25°C (1C/1C)



For more information and videos, please scan the QR code

